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## WHAT IS CLAIMED IS:

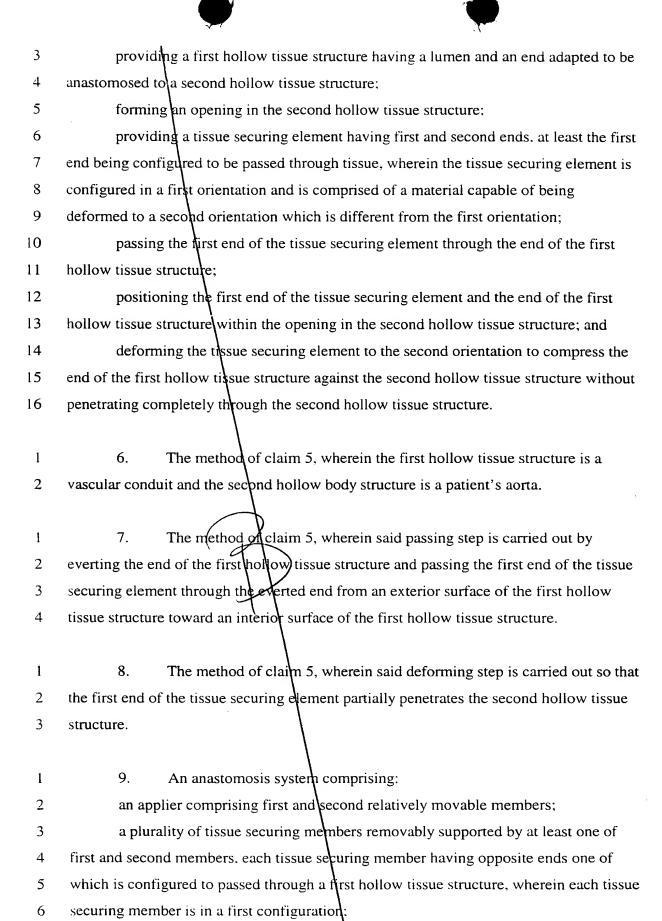
1	1. A method for anastomosing one hollow tissue structure to another
2	hollow tissue structure, the method comprising steps of:
3	passing a first portion of at least one anastomosis device through an end of a first
4	hollow tissue structure, the anastomosis device being in a first configuration;
5	positioning the end of the first hollow tissue structure and the first portion of the
6	anastomosis device through an opening formed in a wall of a second hollow tissue
7	structure;
8	securing the first and second hollow tissue structures together by changing the
9	configuration of the anastomosis device to compress the end of the first hollow tissue
10	structure against the wall of the second hollow tissue structure without passing the
11	anastomosis device through the second hollow tissue structure, wherein the first hollow
12	tissue structure is secured in communication with the opening in the second hollow
13	tissue.
1	2. The method of claim 1, wherein the securing step is carried out by
2	deforming the first portion of the anastomosis device against an inner surface of the wall
3	of the second hollow tissue structure so that the end of the first hollow tissue structure

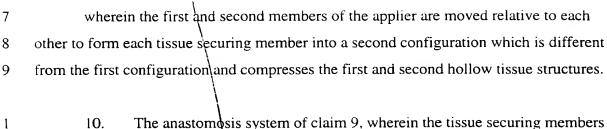
The method of claim 1, wherein a plurality of separate, unconnected anastomosis devices are used to secure the end of the first hollow tissue structure to the second hollow tissue structure.

and the wall of the second hollow tissue structure are compressed between the first

portion and a second portion of the anastomosis device.

- 4. The method of claim 3, wherein each anastomosis device is generally L-shaped when in the first configuration and is generally C-shaped after said securing step.
- 1 5. A method for anastomosing one hollow tissue structure to another 2 hollow tissue structure, the method comprising steps of:





- 10. The anastomosis system of claim 9, wherein the tissue securing members are comprised of a rigid material formed in said first configuration and are permanently deformed into said second configuration by moving the first and second members of the applier relative to each other.
- 1 1. The anastomosis system of claim 9, wherein the tissue securing members
  2 are comprised of superelastic material formed in said second configuration and are
  3 resiliently biased from said second configuration into said first configuration by moving
  4 the first and second members of the applier relative to each other.
  - 12. The anastomosis system of claim 9, wherein the tissue securing members are comprised of a rigid material oriented in said second configuration and are repositioned so as to be oriented in said second configuration by moving the first and second members of the applier relative to each other
  - 13. The anastomosis system of claim 9, further comprising a hub through which the tissue securing members are positioned.

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